

Please provide the following information, and submit to the NOAA DM Plan Repository.

Reference to Master DM Plan (if applicable)

As stated in Section IV, Requirement 1.3, DM Plans may be hierarchical. If this DM Plan inherits provisions from a higher-level DM Plan already submitted to the Repository, then this more-specific Plan only needs to provide information that differs from what was provided in the Master DM Plan.

URL of higher-level DM Plan (if any) as submitted to DM Plan Repository:

1. General Description of Data to be Managed**1.1. Name of the Data, data collection Project, or data-producing Program:**

West Coast Groundfish Bottom Trawl Survey Data - Annual West Coast time series groundfish trawl data collection survey

1.2. Summary description of the data:

Members of the Fishery Resource Analysis and Monitoring Division Survey Team conduct an annual West Coast Groundfish Bottom Trawl Survey from May - October each year, then verify and enter all catch information into an existing database. From 1977 to 1998, the bottom trawl groundfish surveys were conducted triennially; since then, they have been conducted annually, and have been extended to include depths from 55 m to 1280 m from the area off Cape Flattery, Washington (48 10 N) to the U.S.-Mexico border (32 30 N). The groundfish fishery includes about 90 commercially fished stocks off Washington, Oregon, and California.

The survey provides data on abundance, spatial distributions, sex, length, maturity, weight, and age structure of groundfish in trawlable habitats. These surveys are a key source of fishery-independent data necessary to support stock assessments of managed groundfish species inhabiting trawlable habitat along the U.S. West Coast's upper continental slope and shelf. The time series of survey estimates of abundance and age are used in age-structured assessment models for important management species. All survey operations are conducted within strict compliance with NOAA protocols for bottom trawl surveys. Catch and related information are quality checked at sea. The goal is to ensure the sustainability of marine fisheries with a focus on ending overfishing. The survey area is covered twice by chartered commercial fishing vessels (20 to 28 m length). The data are also central to the status and trends time series presented in the California Current Integrated Ecosystem Assessment, and also remain the primary data source for the Atlantis modeling used in several of Management Testing analyses. This survey is mandated by the Magnuson-Stevens Fishery Conservation and Management Re-authorization Act of 2006.

This data set contains information on date, time, vessel, trawl identification (i.e. unique number), trawl performance, location, depth, area swept, trawl duration, temperature, species, haul weight, average individual weight, sex, length, length method, fish age and

age structure.

1.3. Is this a one-time data collection, or an ongoing series of measurements?

Ongoing series of measurements

1.4. Actual or planned temporal coverage of the data:

1998-04-01 to Present

1.5. Actual or planned geographic coverage of the data:

W: -122.3062, E: -122.3062, N: 47.6449, S: 47.6449

Northern California Current System: California Current System - US-canada border to US-Mexico border at depths of 55 - 1280 m

1.6. Type(s) of data:

(e.g., digital numeric data, imagery, photographs, video, audio, database, tabular data, etc.)
Table (digital)

1.7. Data collection method(s):

(e.g., satellite, airplane, unmanned aerial system, radar, weather station, moored buoy, research vessel, autonomous underwater vehicle, animal tagging, manual surveys, enforcement activities, numerical model, etc.)

Instrument: Anemometer, Bottom Contact Sensor, CTD, Depth-Temperature Sensor, Net Mensuration, Satellite Compass, Temperature Sensor

Platform: Water based Platforms - Watercraft - Manned Watercraft - Vessel (Ship) - Fishing Vessels - Trawlers - TO - 01.0.0

Physical Collection / Fishing Gear: Bottom Sampler

1.8. If data are from a NOAA Observing System of Record, indicate name of system:

1.8.1. If data are from another observing system, please specify:

2. Point of Contact for this Data Management Plan (author or maintainer)

2.1. Name:

Metadata Contact

2.2. Title:

Metadata Contact

2.3. Affiliation or facility:

Northwest Fisheries Science Center

2.4. E-mail address:

nmfs.nwfs.metadata@noaa.gov

2.5. Phone number:

(206) 860-3433

3. Responsible Party for Data Management

Program Managers, or their designee, shall be responsible for assuring the proper management of the data produced by their Program. Please indicate the responsible party below.

3.1. Name:

Todd Hay

3.2. Title:

Data Steward

4. Resources

Programs must identify resources within their own budget for managing the data they produce.

4.1. Have resources for management of these data been identified?

Yes

4.2. Approximate percentage of the budget for these data devoted to data management (specify percentage or "unknown"):

10%

5. Data Lineage and Quality

NOAA has issued Information Quality Guidelines for ensuring and maximizing the quality, objectivity, utility, and integrity of information which it disseminates.

5.1. Processing workflow of the data from collection or acquisition to making it publicly accessible

(describe or provide URL of description):

Lineage Statement:

Data is captured using at-sea data collection software that records sensor time-series as well as captures fish catch and individual compositions.

5.1.1. If data at different stages of the workflow, or products derived from these data, are subject to a separate data management plan, provide reference to other plan:

5.2. Quality control procedures employed (describe or provide URL of description):

Extensive data review is accomplished using time-series data analysis tools to review the quality of the tows, as well as significant SQL code to confirm fish sampling quality.

6. Data Documentation

The EDMC Data Documentation Procedural Directive requires that NOAA data be well documented, specifies the use of ISO 19115 and related standards for documentation of new data, and provides links to resources and tools for metadata creation and validation.

6.1. Does metadata comply with EDMC Data Documentation directive?

Yes

6.1.1. If metadata are non-existent or non-compliant, please explain:

6.2. Name of organization or facility providing metadata hosting:

NMFS Office of Science and Technology

6.2.1. If service is needed for metadata hosting, please indicate:

6.3. URL of metadata folder or data catalog, if known:

<https://inport.nmfs.noaa.gov/inport/item/18418>

6.4. Process for producing and maintaining metadata

(describe or provide URL of description):

Metadata produced and maintained in accordance with the NMFS Data Documentation Procedural Directive: <https://inport.nmfs.noaa.gov/inport/downloads/data-documentation-procedural-directive.pdf>

7. Data Access

NAO 212-15 states that access to environmental data may only be restricted when distribution is explicitly limited by law, regulation, policy (such as those applicable to personally identifiable information or protected critical infrastructure information or proprietary trade information) or by security requirements. The EDMC Data Access Procedural Directive contains specific guidance, recommends the use of open-standard, interoperable, non-proprietary web services, provides information about resources and tools to enable data access, and includes a Waiver to be submitted to justify any approach other than full, unrestricted public access.

7.1. Do these data comply with the Data Access directive?

Yes

7.1.1. If the data are not to be made available to the public at all, or with limitations, has a Waiver (Appendix A of Data Access directive) been filed?

7.1.2. If there are limitations to public data access, describe how data are protected from unauthorized access or disclosure:

7.2. Name of organization of facility providing data access:

Northwest Fisheries Science Center

7.2.1. If data hosting service is needed, please indicate:

Yes

7.2.2. URL of data access service, if known:

<http://www.nwfsc.noaa.gov/data>

7.3. Data access methods or services offered:

PDR is submitted

7.4. Approximate delay between data collection and dissemination:

120 days

7.4.1. If delay is longer than latency of automated processing, indicate under what authority data access is delayed:

QA/QC is performed during this time.

8. Data Preservation and Protection

The NOAA Procedure for Scientific Records Appraisal and Archive Approval describes how to identify, appraise and decide what scientific records are to be preserved in a NOAA archive.

8.1. Actual or planned long-term data archive location:

(Specify NCEI-MD, NCEI-CO, NCEI-NC, NCEI-MS, World Data Center (WDC) facility, Other, To Be Determined, Unable to Archive, or No Archiving Intended)

NCEI-MD

8.1.1. If World Data Center or Other, specify:

8.1.2. If To Be Determined, Unable to Archive or No Archiving Intended, explain:

8.2. Data storage facility prior to being sent to an archive facility (if any):

Northwest Fisheries Science Center - Seattle, WA

8.3. Approximate delay between data collection and submission to an archive facility:

120 days

8.4. How will the data be protected from accidental or malicious modification or deletion prior to receipt by the archive?

Discuss data back-up, disaster recovery/contingency planning, and off-site data storage relevant to the data collection

The Northwest Fisheries Science Center facilitates backup and recovery of all data and IT components which are managed by IT Operations through the capture of static (point-in-time) backup data to physical media. Once data is captured to physical media (every 1-3 days), a duplicate is made and routinely (weekly) transported to an offsite archive facility where it is maintained throughout the data's applicable life-cycle.

9. Additional Line Office or Staff Office Questions

Line and Staff Offices may extend this template by inserting additional questions in this section.